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MTRY	Germany (Mussian Zo	ne)	DATE DISTR REGETORS	- 19
JECT	Delivery and Manufa	cturing Program at	NO. OF PAGES 3	
	Oberspreawerk; Deve	lopment of Magnetron C	SW 2585	
CE UIRED		_	NO. OF ENCLS. (LISTED BELOW)	
E 101.	τ,	5	0X1-HUM SUPPLEMENT	
•			REPORT NO.	
E UNITED	CONTAINS INFORMATION AFFECTING THE NATIC STATES WITHIN THE MEANING OF THE ESPI 82. AS AMENDED. ITS TRANSMISSION OR TH 8 IN ANY DANNER TO AN UDAUTHORIZED PE	E REVELATION THIS IS UNEVA	LUATED INFORMATION FOR THE RESEARCH	Н
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l.	The following is the	delivery and manufact	uring program for the experimental	
· -	works of the Oberspr	eewerk for July 1948:	many brokram for one experimental	
,	Amplifier and Transm	itter Tubes:	· /	
	OST 2540 (20 cm)	20 "Aufbauten"	Document No.	
	" 2585	g	NO CHANGE in Class. DECLASSIVIED	
	05% 2021 (5,D 21) 05% 2584	20 "	Class. Chamged TO: TS C	1
	(Diode 10 cm) OSW 2092	d o "	Auth: D74 379 77 14 202	J
	" 2432 (LG11)	80 " 30 "	Date: 4/5/10	
	" 2013 (723 A/B RS 255	6 "	30 " P 20m" 50X	1_HI
	Image Tubes			
	0SW 2047	5 #		
	" 2333	5 "		
	" 2390 (9")	120 "	400 " Order of 31 Yay 49 pieces	
	" 2391 (12") " 2066	35 " 8 "	13 "	
	" 2068b " 2068bn	. 6 "	5 "	
	" 2144	10 "# 10 "Be	dampfer" 2 pieces 5 "	
	1 2205		2	
	Discharge Tubes			
	OSW 2452		5 pieces VY	
	# 2825 # 2577	e e e e e e e e e e e e e e e e e e e	15 " VH	
	" 2455	5 "Aufbauten" 10 "		
	" 2460 " 2564	10 "		
	~ / 04	,		
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Spectral	Tubes

OSW 2523 2527 2498	Experimental work	70 pieces 15 "
" 2499 JE 50		55 "
		7 "

Spectral Tubes

OST	2530	8	pieces vy
19	2531	1 15	11
ft	2532	1 15	H VIII
FF	2533	1 10	u VM
11	2534	5 20	0
		1	II .

Stabilizers and Rectifiers

	2447 (125 V)	75 "aufbauten" 50 "	7/77
	2450 (150 V)	50	V11
11	2549	25 ""	

2. Delivery program for the factory for July 1948.

Amplifier Tubes

71	2190 2192	,				8000 pieces 1000 "
11	2600 2601	(made li	lke "	OST	2190) 2192)	number de la

Metal Ceramic Tubes

	2008			200	pieces
	20 06	4		140	•
11	2568	(LD 6)		• •	
		(=, 0)		30) n

Transmitter Tubes

TS 41	50	11	
Bolometers and Measuring Tubes			

OCT	2090			
			20	11
11	2094			
	2183		30	17
	Z TO D		ደሰ	- 11

Stabilizers

Cont	750/00					
D I V	150/20				1.00	tt -
	280/40				300	18
17	280/40	Hz			20	11

Rectifier Tubes

50 25/0 / 1			
5 0, 33/0,6 d		5	It
S 0, 35/0,6 d S 1/0,2II a S 5/1		30	71
17 300 A 0		16	11
N 190/10		12	11
N 190/20		12	11

Valves

17 2 50 /mm			
V 150/502 p		100	11 '
V 150/1202 p V 230/802 p		25	78
v 230/802 p	CFCDFT	25	¥Ť

25 St.

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Other

"Pulverröhrchensicherungen"

1000 pieces

3. State of development of magnetron OST 2585 on 3 July 1948.

a) At the end of June the first two models were received. A change had been made in the original plans. According to the second specification 10 - 4, the cone of the anode segments was to have at the top a diameter of 2 mm. and the cone was to have an incline of 7° 30°. In the experimental models the diameter at the top was 1.8 mm. and the incline 2°. The total height of the cone was reduced from 6 to 5 mm. The purpose of this change was to decrease the capacity of the opposite anode segment in order to create more favorable conditions for the excitation of the shorter waves.

b) In both tubes a long disturbing wave (Storwelle) was noticed at a wave length of approximately 4 - 5 cm. At one of the tubes there was another such wave at 2.4 cm. wave length which, however, was very weak. This was the harmonic wave of a fundamental oscillation at 4.8 cm. wave length. It was not possible to receive a shorter wave with these two experimental models. This was apparently for two reasons. 1) To obtain a short wave the anode voltage must be about 1800 volts. The anode voltage could, however, be raised only to about 800 volts, since at a higher anode poltage the intensity of the long disturbing waves was so great and the positive ion hombardment of the filament became so strong that the heating filaments risked being destroyed. 2) On opening the tubes it was observed that the inside of the ceramic part had been covered so extensively with copper vapors that no energy could radiate into the connected circuit system. New models are now being produced, in which the anode section has two built-in screen parts to prevent formation of the long disturbing wave. Especial attention is given to the technological preliminary treatment and the pump process, in order to prevent a new gassing of the ceramic parts.

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